



Technological Developments in Networking, Education and Automation

By Elleithy, Khaled / Sobh, Tarek

Condition: New. Publisher/Verlag: Springer Netherlands | This volume offers reviewed papers in such areas as Computer Networks; Engineering Education and Online Learning; Instruction Technology; Coding and Modulation; Wireless technologies; Network Security and applications; Electronics and Power Systems; and more. | Technological Developments in Networking, Education and Automation includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the following areas:Computer Networks: Access Technologies, Medium Access Control, Network architectures and Equipment, Optical Networks and Switching, Telecommunication Technology, and Ultra Wideband Communications. Engineering Education and Online Learning: including development of courses and systems for engineering, technical and liberal studies programs; online laboratories; intelligent testing using fuzzy logic; taxonomy of e-courses; and evaluation of online courses. Pedagogy: including benchmarking; group-learning; active learning; teaching of multiple subjects together; ontology; and knowledge management.Instruction Technology: including internet textbooks; virtual reality labs, instructional design, virtual models, pedagogy-oriented markup languages; graphic design possibilities; open source classroom management software; automatic email response systems; tablet-pcs; personalization using web mining technology; intelligent digital chalkboards; virtual room concepts for cooperative scientific work; and network technologies, management, and architecture. Coding and Modulation: Modeling and Simulation, OFDM technology, Space-time Coding, Spread Spectrum and CDMA Systems. Wireless technologies...



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